

## ENERGYSTAR Homes Bring Back Neighborhood in Detroit

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### About the Project



The Jimmy Carter Work Project 2005(JCWP) in Detroit, Michigan was a **great success!** With the support of over 1500 volunteers from the United States and around the world, 30 new ENERGYSTAR® qualified Habitat homes were built in southwest Detroit the week of June 17-24, 2005.

In the 12-block area named Thurgood Marshall Village, more than 100 family members now have a place to call home, in a neighborhood that includes a new park and playground, also built during JCWP 2005.

Former President Jimmy Carter and his wife Rosalynn led volunteers from around the world in Detroit in building Habitat homes for partner families. Across the state of Michigan, more than 230 homes were built as part of JCWP 2005.

WARM Training Center provided an 8-week Home Repair Workshop series to the Habitat for Humanity homebuyers.



Efrain Guevara working on a new home for his wife Demaris and their family.



Douglas Black, founder of ENERFICIENCY, an architectural services firm and HERS Rater, assisted WARM as an instructor for the Habitat families.

During construction, ENERFICIENCY provided energy analysis of the homes, including insulation inspections, caulking and sealing assistance, and performance diagnostics.

Finally, WARM and ENERFICIENCY provided the third-party ENERGYSTAR for Homes documentation and certification. All homes earned the ENERGYSTAR for Homes label.

### About ENERGYSTAR for Homes

ENERGY STAR qualified homes are independently verified to be at least 30% more energy efficient than homes built to the 1993 national Model Energy Code or 15% more efficient than state energy code, whichever is more rigorous. These savings are based on heating, cooling, and hot water energy use and are typically achieved through a combination of:

- building envelope upgrades,
- high performance windows,
- controlled air infiltration,
- upgraded heating and air conditioning systems,
- tight duct systems and
- upgraded water-heating equipment.



These features contribute to improved home quality and homeowner comfort, and to lower energy demand and reduced air pollution. ENERGY STAR also encourages the use of energy-efficient lighting and appliances, as well as features designed to improve indoor air quality.

### About Warm Training Center



WARM Training Center is a non-profit organization that has been working in the Detroit area on issues related to affordable housing for almost 20 years. It began as an employment and training program teaching people weatherization and basic construction skills. (The initials stood for Weatherization And Retrofit Maintenance. Today WARM only uses the acronym). In the past ten years WARM has increasingly been a technical assistance resource to nonprofit organizations building and rehabilitating affordable housing.

WARM's other main thrust has been educating residents on home repairs, energy matters, and other issues related to sustainability. It has several construction specialists on staff with decades of residential building experience. It's Executive Director has twenty years of

experience in designing and implementing educational services that are energy related. It also has experienced instructors who are available to teach home repair classes on a part-time basis.

One of the unique things about WARM is its close association with community based and faith based housing organizations in the Detroit metropolitan area. For the past seven years WARM has coordinated a series of popular community development conferences in Detroit. These conferences, sponsored by a coalition of the major lenders in the Detroit area, has brought together lenders, governmental agencies, and non-profit housing groups to explore solutions to a variety of community development issues.

WARM is an active member of both Community Development Advocates of Detroit and Community Economic Development Advocates of Michigan, both umbrella groups of non-profit organizations involved in affordable housing and community development.

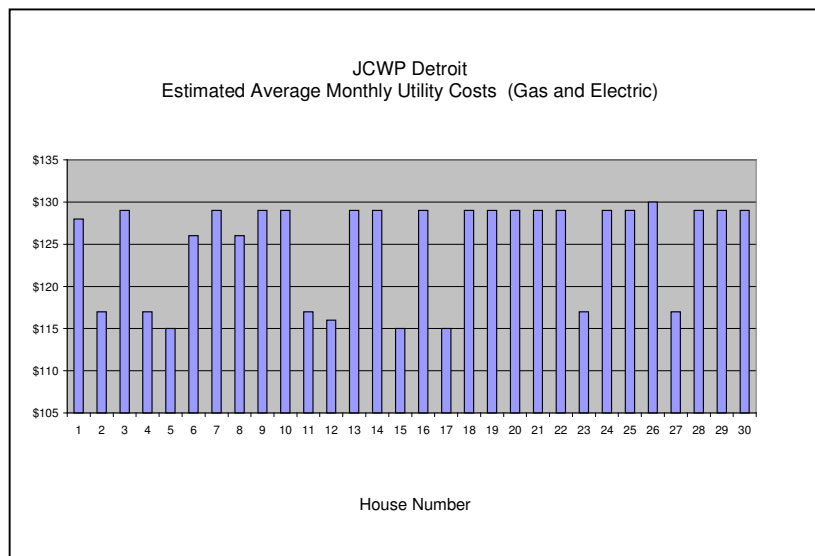
Through its technical assistance activity WARM has built up a credibility that translates into strong interest for the training it offers. Examples of housing related training WARM has conducted include:

- Housing Replacement Options: Modular, Manufactured, Site-Built
- City Inspectors Tell All (With Detroit Building & Safety Inspectors)
- Affordable Housing Design I & II (With U of D/Mercy Design Center)
- Issues in Owner Occupied Rehabilitation
- Specification Writing
- Affordable Housing Options

Three years ago WARM changed its logo to reflect its emphasis on sustainability and has been infusing this issue into its programs and services. WARM is a member of the Michigan Energy Network, a coalition of non-profit organizations and university representatives involved in sustainability issues.

### How well did they score?

The current requirement for ENERGYSTAR certification is a score of 86.0 or higher under the Home Energy Rating System (HERS). All of the 3-bedroom homes scored 87.5 to 87.7, while the score for the 4-bedroom homes scored 86.7 to 87.9. This difference in performance level is clearly illustrated in the estimated average monthly utility costs shown in the chart



below.

In comparison, the same homes simply built per the minimum required code in Michigan would average \$185 per month in utility costs to the owners. **The JCWP homeowners should realize a yearly savings of \$720 or more in utility costs!**

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Shavi Neal and crew taping the sheathing at her home.



Mother and daughter Alice and Erica Perry now have side by side, energy-efficient homes.



**ENERGYSTAR Stamped!**



Attention to Caulking and Sealing